

```

MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGGGG          FFFFFFFFFFFFFFFFFF          IIIIIIIIII          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMMMMM      MMMMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM      MMM      MMM      SSS          GGG          FFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSSSSSSSSS          GGG          FFFFFFFFFFFFFFFFFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGGGGGGGGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSS          GGG          GGG          GGG          FFF          III          LLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL
MMM          MMM          SSSSSSSSSSSS          GGGGGGGGGG          FFF          IIIIIIIIII          LLLLLLLLLLLLLLLLLL

```

```

RRRRRRRR      EEEEEEEEEEE      QQQQQQ
RRRRRRRR      EEEEEEEEEEE      QQQQQQ
RR           RR EE           QQ           QQ
RR           RR EE           QQ           QQ
RR           RR EE           QQ           QQ
RR           RR EE           QQ           QQ
RRRRRRRR      EEEEEEEEEEE      QQ           QQ
RRRRRRRR      EEEEEEEEEEE      QQ           QQ
RR   RR       EE           QQ           QQ
RR   RR       EE           QQ           QQ
RR           RR EE           QQ           QQ
RR           RR EE           QQ           QQ
RR           RR EE           QQ           QQ
RR           RR EEEEEEEEEEE      QQ           QQ
RR           RR EEEEEEEEEEE      QQ           QQ

```

[illegible]

1

Version: 'v04-000'

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**ABSTRACT:**

This is the common require file for all modules in the message compiler.

**ENVIRONMENT:**

VAX/VMS operating system, unprivileged user mode utility,  
operates at non-AST level.

**AUTHOR:** Tim Halvorsen. Nov 1979

MODIFIED BY:

V03-002 GJA0052 Greg Awdziewicz 23-Nov-1983  
Add size literal and field definitions for the queue of input  
file specifications.  
Add subtitles.  
Add error code for parsefail.

V03-001 BLS0168 Benn Schreiber 2-Apr-1982  
Do not require MSGDEF as it is now in STARLET and LIB

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MSG.REQ:1

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!----

CVT

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MSG.REQ;1

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XSBTTL 'Internal definitions'

! :  
! :  
! :

Define message structure definitions

REQUIRE 'LIB\$MSGINT.B32';

! Message compiler internal definitions

CVT

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LAB

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C

||| ZSBTTL 'Required file for MESSAGE source modules'

||| Define fields for the queue element for an input filename and  
||| define a literal for size of the element:

FIELD

info\_queue\_flds =

SET

queue\_flink = [0, 0, 32, 0], : Forward link for queue.  
queue\_blink = [4, 0, 32, 0], : Backward link.  
name\_desc = [8, 0, 0, 0], : Descriptor for filename:  
name\_length = [8, 0, 16, 0], : ... length subfield,  
name\_addr = [12, 0, 32, 0] : ... address subfield.

TES;

LITERAL

queue\_element\_size= 16; ! Total (byte)size of queue element.

||| Define VMS block structures

STRUCTURE

bblock [o, p, s, e; n] =  
[n]  
(bblock+o)<p,s,e>;

```
$SHR_MESSAGES( name, code, (msg,severity), ... )
```

where:

```

"name" is the name of the facility (e.g., COPY)
"code" is the corresponding facility code (e.g., 103)
"msg" is the name of the shared message (e.g., BEGIN)
"severity" is the desired message severity (e.g., 1, 0, 2)

```

```
MACRO
    $SHR_MESSAGES( FACILITY_NAME, FACILITY_CODE ) =
        [ LITERAL
          SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE, %REMAINING ); %,
          SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE) [ VALUE ] =
            SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, %REMOVE(VALUE) ) %,
          SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, MSG ID, SEVERITY ) =
            %NAME(FACILITY_NAME, '$ ', MSG ID) = %NAME('SHR$', MSG_ID) + FACILITY_CODE*65536 +
            %IF %DECLARED(%NAME('ST$K ', SEVERITY))
              %THEN %NAME('ST$K ', SEVERITY)
            %ELSE SEVERITY %FI-%;
```

```
! Equated symbols
!
LITERAL
  true      = 1,      ! Boolean true
  false     = 0,      ! Boolean false
  ok        = 1;      ! Success return code
```

```
! Define CLI qualifier flags (see cli_flags)
!
LITERAL
  $EQLST (QUAL,,0,1,
    (listing, ),      ! /LISTING qualifier present
    (object, ),        ! /OBJECT qualifier present
    (file, ),          ! /FILE qualifier present
    (mdl, ),           ! /MDL qualifier present
    (sdl, ),           ! /SDL qualifier present
    (input, ),         ! Input parameter present
    (symbols, ),       ! /SYMBOLS qualifier present
    (text, ));         ! /TEXT qualifier present
```



Define message codes.

```
$shr_messages(msg,151,  
  (syntax,severe),      | Syntax error  
  (openin,error),       | Unable to access input file  
  (openout,severe),     | Unable to access output file  
  (readerr,severe),     | Error reading input file  
  (closedel,error),     | Unable to close input file  
  (parsefail,error),   | Error parsing file specification  
  (searchfail,error),  | Error searching for file  
  (writeerr,error),    | Error writing file  
);
```

```
MACRO  
  emsg(ident) =  
  BEGIN  
    %IF NOT %DECLARED(%NAME('msg$ ',ident))  
      %THEN EXTERNAL LITERAL %NAME('msg$_',ident); %FI  
    %NAME('msg$_',ident)  
  END%;
```

%SBTTL ''



0251 AH-BT13A-SE  
VAX/VMS V4.0

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MSGINT  
MOD

SOLGENREQ  
REQ

MSGDEF  
SOL

CUTMSGCOM  
FOR

CUTMSG  
LIS

MSG  
REQ

MAIN  
LIS

LISTING  
LIS